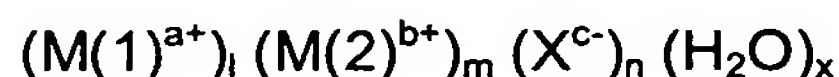


CLAIMS

1. Polyolefin composition comprising a water releasing additives in concentrations from 0.001 to 1 weight percent, based on the weight of the polyolefin mass wherein the water releasing additive is a hydrated inorganic or organic compound according to the general formula:



in which



$$l \cdot a + m \cdot b = n \cdot c \text{ and } x = 1-24,$$

and mixtures of the foregoing.

2. Polyolefin composition according to claim 1 wherein the water releasing additive is selected from $(NH_4)_2B_4O_7 \cdot 4H_2O$, $NH_4HB_4O_7 \cdot 3H_2O$, $NH_4HC_2O_4 \cdot H_2O$, $(NH_4)_2C_2O_4 \cdot H_2O$, $(NH_4)_2HPO_3 \cdot H_2O$, $Ca(C_2H_3O_2)_2 \cdot H_2O$, $CaC_2O_4 \cdot H_2O$, $Ca(H_2PO_4)_2 \cdot H_2O$, $Mg(C_2H_3O_2)_2 \cdot 4H_2O$, $K_2C_2O_4 \cdot H_2O$, $NaKC_2O_4 \cdot 4H_2O$, $K_2HPO_4 \cdot 3H_2O$, $K_4P_2O_7 \cdot 3H_2O$, $K_2B_4O_7 \cdot 5H_2O$, $K_3citrate \cdot H_2O$, $K_2tartrate \cdot xH_2O$, $NaC_2H_3O_2 \cdot 3H_2O$, $NaNH_4HPO_4 \cdot 4H_2O$, $Na_2CO_3 \cdot 10H_2O$, $Na_2CO_3 \cdot H_2O$, $Na_3C_6H_5O_7 \cdot 2H_2O$, $Na_2C_6H_6O_7 \cdot 1.5H_2O$, $NaC_6H_7O_7 \cdot 3H_2O$, $NaH_2PO_4 \cdot H_2O$, $NaH_2PO_4 \cdot 2H_2O$, $Na_2HPO_4 \cdot 2(H_2O)$, $Na_2HPO_4 \cdot 12H_2O$, $Na_2HPO_4 \cdot 7H_2O$, $Na_3PO_4 \cdot 12H_2O$, $NaK(C_4H_4O_6) \cdot 4H_2O$, $Na_2SO_4 \cdot 10H_2O$, $Na_2B_4O_7 \cdot 10H_2O$, $Na_2B_4O_7 \cdot 5H_2O$, $Na_2B_4O_7 \cdot 4H_2O$, $Na_4P_2O_7 \cdot 12H_2O$, $Na_2HPO_4 \cdot 5H_2O$, trisodiumcitrate $\cdot 2 H_2O$, disodium citrate $\cdot 1,5 H_2O$, sodium citrate $\cdot H_2O$, sodium lactate $\cdot x H_2O$.

3. Polyolefin composition according to claim 1 wherein the water releasing additive is selected from $K_2HPO_4 \cdot 3H_2O$, $K_4P_2O_7 \cdot 3H_2O$, $K_2B_4O_7 \cdot 5H_2O$, $Na_2CO_3 \cdot 10H_2O$, $Na_2CO_3 \cdot H_2O$, $Na_3C_6H_5O_7 \cdot 2H_2O$, $Na_2C_6H_6O_7 \cdot 1.5H_2O$, $NaC_6H_7O_7 \cdot 3H_2O$, $NaH_2PO_4 \cdot H_2O$, $NaH_2PO_4 \cdot 2H_2O$, $Na_2HPO_4 \cdot 2(H_2O)$, $Na_2HPO_4 \cdot 12H_2O$,
5 $Na_2HPO_4 \cdot 7H_2O$, $Na_3PO_4 \cdot 12H_2O$, $Na_2SO_4 \cdot 10H_2O$, $Na_2B_4O_7 \cdot 10H_2O$, $Na_2B_4O_7 \cdot 5H_2O$, $Na_2B_4O_7 \cdot 4H_2O$, $Na_4P_2O_7 \cdot 12H_2O$, $Na_2HPO_4 \cdot 5H_2O$.
4. Polyolefin composition according to claim 1 wherein the water releasing additive is selected from $K_2HPO_4 \cdot 3H_2O$, $K_4P_2O_7 \cdot 3H_2O$, $NaH_2PO_4 \cdot H_2O$, $NaH_2PO_4 \cdot 2H_2O$,
10 $Na_2HPO_4 \cdot 2(H_2O)$, $Na_2HPO_4 \cdot 12H_2O$, $Na_2HPO_4 \cdot 7H_2O$, $Na_3PO_4 \cdot 12H_2O$, $Na_4P_2O_7 \cdot 12H_2O$, $Na_2HPO_4 \cdot 5H_2O$.
5. Polyolefin composition according to claim 1 wherein the concentration of the water releasing additives is from 0.003 to 0.1, preferably from 0.01 to 0.07 weight
15 percent.
6. Polyolefin composition according to claim 1 wherein the additive is a blend of a water releasing additive according to claim 1 with calcium stearate or zinc stearate or DHT4A in a blend ratio from 10:90 to 90:10 by weight.
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7. A process for the prevention of discoloration in polyolefins characterized by the addition of a hydrated inorganic or organic compound as characterized in claims 1 to 5 to a polyolefine in concentrations from 0.001 to 1 weight percent, based on the weight of the polyolefin mass.
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8. A process according to claim 7 wherein the hydrated inorganic or organic compounds are added to the polyolefin polymer formed in any polymerization process prior to devolatilization and/or melt extrusion and pelletizing thereof.
- 30 9. A process according to claim 7 wherein the hydrated inorganic or organic compounds are incorporated into the molten polymer mass by means of a melt mixing process, preferably in the form of a concentrate or masterbatch.
- 35 10. Use of polyolefin composition as characterized in claims 1 to 6 for the prevention of discoloration in polyolefins.